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APPLICATION NO.	FILING DATE	FIRST NAMED IN	/ENTOR	AT	TORNEY DOCKET NO.
09/294,96	4 04/20/	99 BILSTAD		А	1417B-P-316
		IM52/0410	\neg	EX	(AMINER
MARK J BUONAIUTO ESQ			SOUBRA, I		
	CORPORATE COUNSEL			ART UNIT	PAPER NUMBER
	TERNATIONA R PARKWAY IL 60015			1744 DATE MAILED:	9
					04/10/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	A.							
	Application No.	Applicant(s)						
Office Action Summary	09/294,964	BILSTAD ET AL.						
omee neuen cummary	Examiner	Art Unit						
	Imad Soubra	1744						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.								
 Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days be considered timely. If NO period for reply is specified above, the maximum statutory communication. Failure to reply within the set or extended period for reply will, by Status 	cation. a, a reply within the statutory minimur period will apply and will expire SIX (n of thirty (30) days will	nailing date of this					
1) Responsive to communication(s) filed on 05 M	larch 2001 .							
	s action is non-final.							
3) Since this application is in condition for alloware closed in accordance with the practice under E	nce except for formal matters Ex parte Quayle, 1935 C.D. 11	prosecution as to t , 453 O.G. 213.	the merits is					
Disposition of Claims								
4)⊠ Claim(s) 1-56 is/are pending in the application.								
4a) Of the above claim(s) 18-33 is/are withdraw								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-17 and 34-56</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8)⊠ Claims <u>18-33</u> are subject to restriction and/or o	election requirement							
Application Papers								
9) The specification is objected to by the Examine	r							
10) The drawing(s) filed on <u>20 April 1999</u> is/are objected to by the Examiner.								
 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved. 12) ☐ The oath or declaration is objected to by the Examiner. 								
12) The dath of declaration is objected to by the Ex-	arriirer.							
Priority under 35 U.S.C. § 119								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).								
a) ☐ All b) ☐ Some * c) ☐ None of the CERTIFIED copies of the priority documents have been:								
1. received.								
2. received in Application No. (Series Code / Serial Number)								
3. received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgement is made of a claim for domes								
Attachment(s)								
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 7. 	19) Notice of Inform	nary (PTO-413) Paper N nal Patent Application (P						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-3, 14-17, 34-36 and 46-47 are rejected under 35 U.S.C. 102 (b) as being anticipated by Granzow et al. Granzow et al inherently discloses the same method and system for sterilizing and adjoining two ends of a tube exposing the ends to radiant energy for a certain period of time. Granzow et al teaches to utilize radio frequency energy of the like as the radiant energy, opaque wall portions 30 (column 4, lines 15-23). The reference also teaches that a sterile connection can be made by briefly exposing the infrared radiation, to melt the opaque wall sections, fusing them together and forming an aperture through the sections (column 4, lines 24-41). Granzow further teaches that a laser may also be used as desired to provide the radiant energy (column 2, lines 31-41). In addition, the reference refers to the drawing which is an elevated view of a pair of conduit ends, the other ends of which may be connected to a pair of blood bags or the like, each terminating in a pair of housings which carry an opaque, thermoplastic wall portion in accordance with his invention (column 2, lines 48-53).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 4-7, 37-40 and 48-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Granzlow et al in view of Wakalopulous. Granzlow et al. fails to disclose the voltage ranges used to conduct the method. However, Wakalopulous teaches the voltage ranges used to curing hot melt adhesives. The ranges stated in the claimed invention reads on what the patent of Wakaloulous uses. For instances, the reference teaches that the first high voltage, 30 kV, being a lower voltage, will affect primarily the surface of the material being treated. The second high voltage, 60 kV, being a higher voltage, will affect the surface, but with a greater amount of penetrating power, will also affect a greater depth of material (column 6, lines 24-58). Therefore, it would have been obvious to one having ordinary skill in the art at the time that the invention was made to determine the voltage ranges and incorporated those ranges into the patent of Granzow et al and disclosing those voltage ranges which is notoriously well known in the art.

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3. Claims 8-13, 41-45 and 50-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Granzlow et al in view of Caputo et al. Granzlow et al fails to disclose the gas treatment, UV and ozone exposure and the system being automated. However, Caputo et al teaches all these elements in his inventions. The reference teaches that the operation is being controlled by the central processing unit (CPU) (column 9, lines 4-20). Caputo et al further teaches that the treatment of hydrogen peroxide and peracid gas to sterilize objects is notoriously well known in the art (column 7, lines 21-45). The reference also teaches that UV (column 8, line16) and ozone (column 1, line 60) formed from current whereby articles are sterilized. Therefore, it would have been obvious to one having ordinary skill in the art at the time that the invention was made to incorporate these missing elements into the invention of Granzlow and Wakalopulos and claim these limitations into the claimed invention as described in the application.

Applicants' Arguments

4. The presently rejected Claim 1 requires "preparing the ends of each component to be joined while exposed to the active sterile field." Further, Claim 1 requires "joining the prepared ends together while exposed to the active sterile field." The Examiner has apparently overlooked the scope of these two limitations.

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5. Wakalopulos is directed to an electron beam array for curing thin coatings. Nowhere

within this reference does it teach the use for sterilization. The Examiner has pointed to

no such teaching.

6. The Examiner has not pointed to any motivation to combine this reference with

Granzow. Because Granzow requires the radiant energy to pass through the

transparent housing to melt the disc, how would the use of gas treatment or ozone

accomplish this task? The Examiner has provided no explanation of how his would be

obvious to one skilled in the art.

Response to Applicants' Arguments

4. The Applicants' Argument is respectfully traversed by the Examiner. The Examiner

has interpreted the claims as broad as possible in order to find prior art that reads on

the claim. The Examiner has applied the patent of Granzow et al because it shows

radiation is being used as a sterile field and column 2, lines 22- 33 suggests that any

bacteria residing upon the exterior surfaces of the opaque wall portions are entrapped in

the melted mass and preferably killed by exposure to the melting temperature of the

opaque wall portions. Also, in the figures 1-5 show that the two conduits are being

joined while the sterile field is applied on the conduits.

5. The motivation in this case does not have to be in reference to sterilization but the

use of energy applied onto materials. The applicant used two different range of electric

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beam field wherein the Examiner applied prior art that reads on the claim and states

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that the amount of electric field beam sources are known where this range is used due

to the penetration of the material as stated in rejection statement 2 of the office action.

This would be the motivation for combining the references.

6. The Applicants' Argument is respectfully traversed by the Examiner. In rejection

statement three, the patent of Caputo suggests that these elements are used to sterilize

objects and the CPU is used to control the function of the device as mentioned above.

Conclusion

Any inquiry concerning this communication from the examiner should be directed to

Imad Soubra whose telephone number is (703) 305-3541. The examiner can normally

be reached on 8:30 am to 4:30 pm. If attempts to reach the examiner by telephone are

unsuccessful, the examiner's supervisor, Robert Warden can be reached on (703) 308-

2920. The fax phone numbers for the organization where this application or proceeding

is assigned are (703) 305-3599 for regular communications and (703) 305-5408 for

After Final communications. Any inquiry of a general nature or relating to the status of

this application or proceeding should be directed to the receptionist whose telephone

number is (703) 308-1193.

Imad Soubra March 27, 2001 ROBERT J. WARDEN, SR. SUPERVISORY PATENT EXAMINER

7. Warden, In

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